



US005763484A

**United States Patent** [19]  
**Horrobin**

[11] **Patent Number:** **5,763,484**  
[45] **Date of Patent:** **Jun. 9, 1998**

[54] **LIPIDS FOR TREATMENT OF DISEASE**

[58] **Field of Search** ..... 514/560

[75] **Inventor:** **David F. Horrobin**, Guildford, England

[56] **References Cited**

[73] **Assignee:** **Scotia Holdings plc**, Guildford, United Kingdom

**U.S. PATENT DOCUMENTS**

3,950,547 4/1976 Lamar et al. .... 426/74  
4,058,594 11/1977 Williams ..... 424/490

[21] **Appl. No.:** **823,790**

**OTHER PUBLICATIONS**

[22] **Filed:** **Mar. 24, 1997**

Müller *Das Deutsche Gesundheitswesen* 1973, 28(35), 1633-1638.

**Related U.S. Application Data**

[60] Continuation of Ser. No. 482,446, Jun. 7, 1995, abandoned, which is a division of Ser. No. 197,459, Feb. 16, 1994, abandoned, which is a continuation of Ser. No. 13,163, Feb. 2, 1993, abandoned, which is a continuation of Ser. No. 810,434, Dec. 19, 1991, abandoned, which is a continuation of Ser. No. 668,700, Mar. 7, 1991, abandoned, which is a continuation of Ser. No. 522,085, May 11, 1990, abandoned, which is a continuation of Ser. No. 274,358, Nov. 21, 1988, abandoned, which is a division of Ser. No. 45,545, May 4, 1987, Pat. No. 4,806,569, which is a division of Ser. No. 575,744, Jan. 31, 1984, Pat. No. 4,681,896.

*Primary Examiner*—Kathleen K. Fonda

*Attorney, Agent, or Firm*—Banner & Witcoff, Ltd.

[57] **ABSTRACT**

A method of treatment of a disorder, including breast cancer and other cancer, with effective amounts of one or more of the metabolites of linoleic acid (GLA, DGLA, AA, 22:4n-6 or 22:5n-6) and one or more of the metabolites of  $\alpha$ -linolenic acid (18:4n-3, 20:4n-3, 20:5n-3, 22:5n-3 or 22:6n-3) administered as such or in the form of an ester, salt, amide or other derivative convertible in the body thereto alone or in acceptable pharmaceutical carrier or diluent.

[30] **Foreign Application Priority Data**

Feb. 1, 1983 [GB] United Kingdom ..... 8302708

[51] **Int. Cl.<sup>6</sup>** ..... **A61K 31/20**

[52] **U.S. Cl.** ..... **514/560**

**1 Claim, No Drawings**